



AUDIOVOX®
ELECTRONICS CORP.

XM® Satellite Radio Receiver XMC10 Car Cradle INSTALLATION GUIDE





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Congratulations

Thank you for purchasing the Audiovox Xpress XM® Satellite Car Kit. You are one step closer to experiencing the latest innovation in XM® Satellite Radio. XM® Satellite Radio will revolutionize your vehicle or in-home entertainment.

XM® features over 170 digital channels — the most commercial-free music, over 30 channels of news, sports, talk and entertainment, over 20 dedicated channels of XM® Instant Traffic & Weather, and the deepest play-list in the industry with access to over 2 million titles!

XM® Satellite Radio service gives you the power to choose what you want to hear - wherever and whenever you want it. XM® is America's #1 Satellite Radio provider with over 4 million customers.

Your Audiovox Xpress XM® receiver must be used with an accessory kit, such as the Audiovox Home Kit, Boom Box or Vehicle Kit as required by your specific installation needs. These kits are available at retailers where Audiovox main units are sold.

Required subscription for service sold separately.

Installation costs and other fees and taxes may apply, including a one-time activation fee. All fees and programming subject to change. College sports games subject to availability. Subscriptions subject to Customer Agreement included with the XM Welcome Kit and available at www.xmradio.com. Only available in the 48 contiguous United States.

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FCC Information

• **NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The user is cautioned that changes or modifications not expressly approved by XM® Satellite Radio, Inc. can void the user's authority to operate this device.

Please note that the cables that have been supplied with your XMC10 car cradle are supplied with permanently attached ferrite beads. It is the responsibility of the user to use the cable with the ferrite beads.

By adhering to these warnings and safety considerations, stated in the manual and by XM®, accidents.



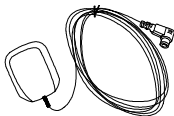
Cautions and Warnings

1. Do not install the XMC10 car cradle in a position that hinders your view through the windshield, or obstructs viewing of the dashboard indicators and displays.
2. Do not install the unit where it may obstruct the operation or deployment of safety devices, such as airbags, etc.
3. Do not allow operation of the unit to detract from safe driving practices; remember that you are responsible as the vehicle operator to adhere to all safe driving and traffic regulations.
4. By adhering to these warnings and safety considerations, serious accidents and/or personal injury can be avoided.

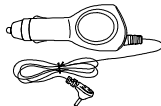
Contents XMC10



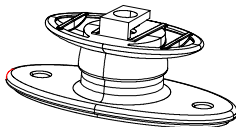
Install Manual



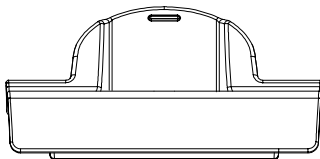
Antenna
1 pc.



**12 Volt-to-5 Volt
DC Power Adapter**
1 pc.

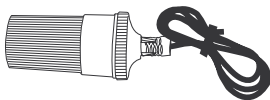


Swivel Bracket
1 pc.



Cradle XMC10
1 pc.

Contents XMC10 (Cont)



CLA Female Socket
1 pc.

ACCESSORY KIT

**Alcohol Cleaning Pad,
Surface Cleaning Pad,
Instruction Sheet,
Antenna Cable Exit Plug**

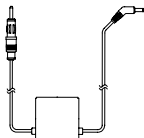
OPTIONAL



Audio Cable
(P/N SAT-RCA)



Cassette Adapter
1pc.



FM Direct Adapter
(P/N XMFM-1)



Installation/Wiring Precautions

1. To prevent a short-circuit, be sure to turn off the ignition and remove the negative (-) battery cable prior to installation. Connect power wires last.
2. Do not install the unit in the locations exposed to direct sunlight or, in areas subject to extreme temperatures.
3. Incorrect installation may cause damage to the system. Mount the unit firmly in place, using the supplied hardware.
4. Be careful not to damage the vehicle wiring.
5. Be sure to use the supplied screws and washers.
6. Be careful not to snag any wires when tightening screws.
7. Use only the 12 Volt-to-5 Volt DC Power Adapter supplied. Use of an alternative power adapter may damage the Xpress XM[®] unit and/or the XMC10 cradle.

CAUTION: *You could drain the vehicle battery if the DC power adapter remains plugged in after the ignition is turned off. Unplug the adapter to prevent this possibility.*



Setting Up and Installing Your Kit

NOTE: *The XM signal can be received and processed virtually anywhere as long as there are no obvious satellite signal obstructions such as nearby buildings, high terrain, parking garages or tunnels.*

1. Cabling Interconnections

You can begin to enjoy XM[®] Satellite Radio as soon as the Xpress XM[®] Receiver and Vehicle Kit installation are complete. Set up your Audiovox Xpress XM[®] System using the following installation instructions, or enlist the help of a professional installer:

2. Installing the Cradle Mount Base Assembly

- a. Interconnect all of the components as shown on the adjacent page to verify that the system operates normally.
- b. Locate a firm, reasonably flat surface within your car to permit optimum viewing and line-of-sight access by the supplied remote control unit.

Interconnect Diagram

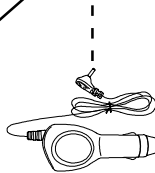
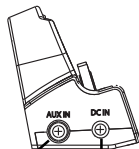
NOTE:

1. IF THE XMC10 IS INSTALLED USING THE OPTIONAL XMFM-1 FM DIRECT ADAPTER, DO NOT CONNECT AN AUDIO CABLE TO THE LINE OUT CONNECTOR OF THE CRADLE.

2. THE FM TRANSMITTER OPTION MUST BE SET TO "FM ON" IN THE XPRESS XM USER MENU. (REFER TO THE OWNER'S MANUAL, PUBLICATION NO.128-7454C.)

AUX AUDIO INPUT TO AUDIO OUTPUT OF EXTERNAL PLAYBACK DEVICE. THIS PERMITS AUDIO FROM AN EXTERNAL DEVICE SUCH AS A PORTABLE CD PLAYER OR MP3 PLAYER TO BE PLAYED THROUGH THE XPRESS XM WIRELESS FM TRANSMITTER.

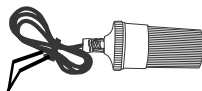
**XMC10 CRADLE
(LEFT SIDE VIEW)**



+12V to +5V
DC POWER
ADAPTER

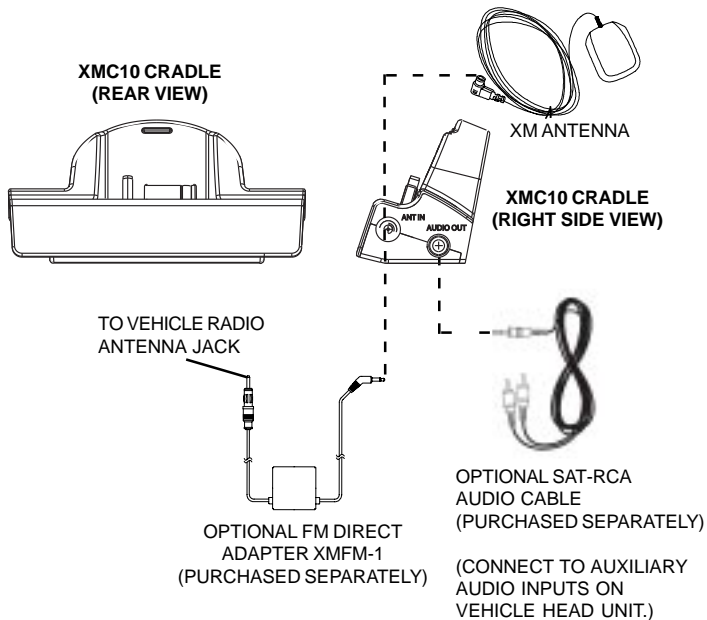
OR


TO VEHICLE
+12 VDC POWER
RECEPTACLE



CLA FEMALE SOCKET WIRES
TO VEHICLE +12 VDC POWER
RECEPTACLE

Interconnect Diagram (Cont)

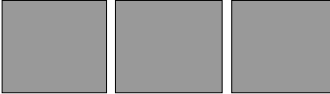




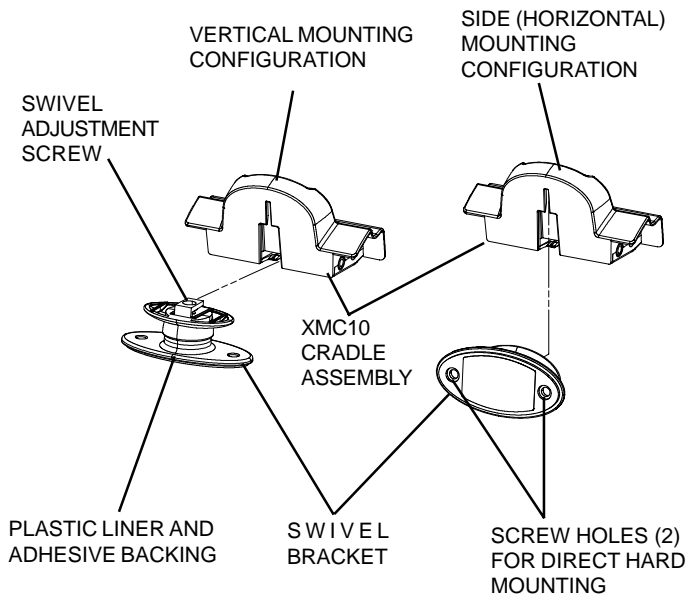
CAUTION: *Do not install the swivel bracket on a leather or fabric surface, or in a position that could impair your vision, block air bag(s) or obstruct vehicle dashboard controls and/or radio CD/cassette operational displays.*

NOTE: *The adhesive backing on the bracket will not permit easy repositioning once it has been mated to the surface; use extreme care and planning when selecting the mounting location. If the bracket is to be screwed to the surface, make sure the area in back of the mounting surface is clear of wires or other items to prevent unintentional damage.*

- c. Using the alcohol swab supplied with your kit, clean the mounting surface and thoroughly wipe the area dry with a clean lint-free cloth.
- d. If the outside air temperature is cold, it may be beneficial to warm the adhesive backing on the bracket using a portable hair dryer, or by holding the backing surface in front of a vehicle heater vent.

- 
- e. Remove the plastic liner from the adhesive backing on the bracket, and fix the base in position on the surface; make sure the mounting pad is accurately positioned on the first try, since repositioning may be difficult, if not impossible.
 - f. If the bracket is to be screwed in place, do not remove the plastic liner from the adhesive backing. Use appropriate sheet metal or machine screws for this purpose.
 - g. To mount the XMC10 cradle atop the swivel bracket, line up the slot at the rear of the cradle with the bracket retainer tab, and slide the cradle down so that the slot and tab mesh together in a locked position.

NOTE: *Allow a 72-hour period for the adhesive backing to cure completely.*





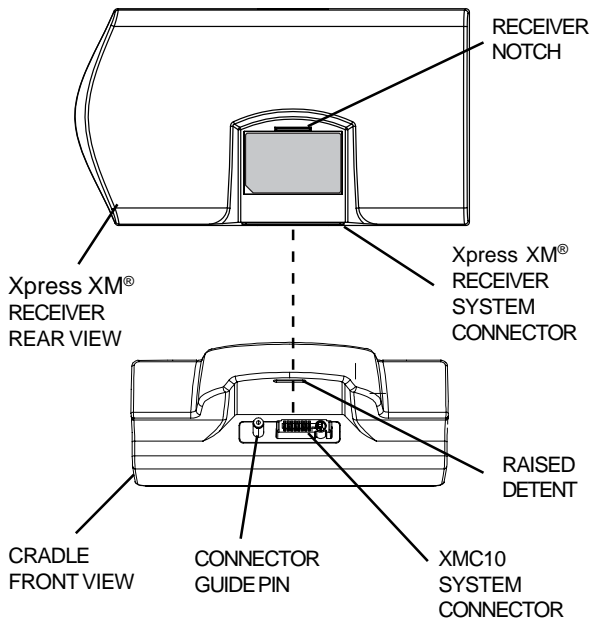
3. *Using Other Manufacturer's Mounts*

The XMC10 Cradle can also be installed using other manufacturer's mounts; the mounting plate provisions on the rear and bottom of the cradle provide you with two mounting options within the vehicle using various vehicle-specific aftermarket brackets.

4. *Installing the Xpress XM® Receiver into the Cradle*

Install the Receiver as follows:

- a. After making sure the connectors and guide pin hole are properly lined up, gently lower the Xpress XM® Receiver into the cradle and press down on the Xpress XM® Receiver to mate the connectors together. The raised detent on the cradle will enter the notch on the rear of the Receiver, indicating the Xpress XM® is properly seated.
- b. The Xpress XM® Receiver should now be secured in the cradle



5. *Connection Options*

The Xpress Receiver and Cradle provide an audio output signal in three ways:

- a. **FM Wireless Transmitter** - When using the XMC10 cradle with the wireless FM transmitter option, the XM audio signal can be received through your vehicle radio on selectable FM frequencies using the menu options included in your Xpress Receiver. (Refer to the Receiver owner's manual.) The XM audio signal can then be played through your vehicle radio when the car radio is tuned to one of the available frequencies.
- b. **FM Direct Wiring** - If the FM wireless transmitter does not provide satisfactory performance in your vehicle, use the optional FM Direct Adapter, Part # XMFM-1, which provides a hard-wired FM output.
- c. **Low-Level Audio Output** - For vehicles equipped with radio head units with auxiliary audio inputs, the audio signal can be routed through an optional audio cable (Part No. SAT-RCA) and applied to the auxiliary inputs of a radio or entertainment system. In this case, it is best to turn the Xpress Receiver FM modulator option off to avoid interference.

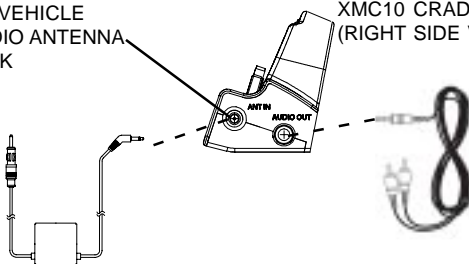
- d. **Xpress Cassette Adapter** -The XM7 Xpress Cassette Adapter offers an additional audio connection option by utilizing your existing vehicles in-dash cassette deck.

XM7 research and lab test results show that using a vehicle cassette adapter can best maximize the relationship between the best sound quality and ease of installation (see chart below).

Audio Quality	Good	Better	Best
Cassette Adaptor			
Wired FM			
Wireless FM			

TO VEHICLE
RADIO ANTENNA
JACK

XMC10 CRADLE
(RIGHT SIDE VIEW)



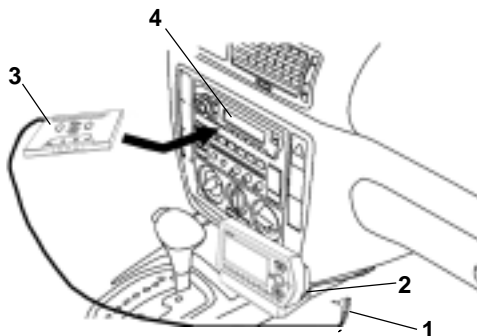
OPTIONAL SAT-RCA
AUDIO CABLE
(PURCHASED
SEPARATELY)
(CONNECT TO
AUXILIARY AUDIO
INPUTSON VEHICLE
HEAD UNIT.)

OPTIONAL FM DIRECT
ADAPTER XMFM-1
(PURCHASED SEPARATELY)

Xpress Cassette Adapter Installation.

Installation is simple.

- 1.) Plug the end jack (1) into the XM7 Xpress Car Cradle's audio output (2).
- 2.) Insert the cassette adapter (3) in the vehicles in-dash cassette slot (4).





6. Installation Guidelines

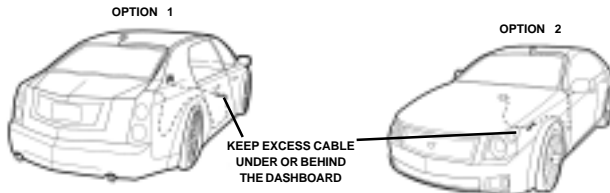
IMPORTANT: *For best wireless FM Modulator performance, you must locate the satellite radio antenna in a location that is in close proximity to the vehicle's FM antenna.*

For example, with reference to the adjacent illustration, if your FM antenna is located on a rear fender or top of the roof, mount the XM antenna near the rear window location (option 1). If your FM antenna is located on a front fender, mount the XM antenna near the windshield location (option 2). Remember, the closer the satellite radio antenna can be to the FM antenna, the better the wireless FM reception and sound quality will be. In order to optimize the operation of the wireless FM modulator, follow the installation guidelines outlined in steps 1 through 4 as follows:

Step 1.

First, determine the proper location for your satellite radio antenna based on the following criteria for your specific vehicle:

- a. You must locate the satellite radio antenna on the top of the roof either in front of the rear window (option 1) or behind the windshield (option 2). The satellite radio antenna will perform best if magnetically attached to a steel surface with an unobstructed view of the open sky and minimum of 3 to 6 inches of metal surrounding the antenna.

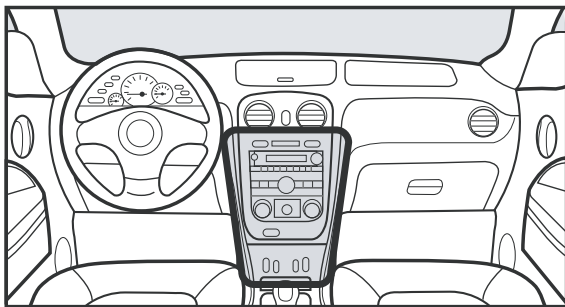


- b. When routing the antenna cable along the windshield or rear window, tuck the antenna cable under the window seal to maintain a professional looking installation and to avoid loose wires on the exterior of the vehicle which are susceptible to damage. Follow the interior cable routing diagram depicted by dashed lines in the illustration above where possible.
- c. For best FM Modulator performance, you must position the satellite radio antenna in a location that is in close proximity to the vehicle's FM antenna.
- d. Avoid kinking, crimping, twisting or chafing the cable. Use pre-existing wire channels when possible.
- e. For option 1 and rear mounting locations, route the cable into the trunk as shown in the previous illustration. Always cross the weather seal at the lowest part of the trunk to reduce water leaks. From the trunk, route the cable into the passenger compartment through available wire channels and then along the floor under the door jam trim or under the carpet to the front of the passenger compartment. Do not leave the cable loose in the passenger compartment where it is likely to be damaged.

- f. For option 2 and front mounting locations, route the cable along the door jam and into the vehicle as shown. Route the cable across the weather seal near the bottom of the door to reduce water leaks.

Step 2.

Be sure to locate your car cradle and receiver below the top of the dash in your vehicle to keep the product within easy reach while driving. Choosing a lower location in your installation should also make it easier to manage the cables and achieve a more desirable appearance when the installation is completed. A lower location for the receiver in the vehicle will ensure that the installation does not cause interference with other FM radios outside the vehicle. See illustration below and be sure to locate your car cradle within the outlined shaded areas.




Step 3.

Once you have plugged the power and antenna jacks into the car cradle, use the included cable organizer as shown in the illustration at right to improve the overall appearance of the installation.

Step 4.

Re-use the cable twist ties that were provided with the power adapter and car antenna cables and always be sure to gather, bundle, twist-tie, and secure any excess cable remaining after determining the best location for your satellite radio installation.





For example, secure the excess cable up under your dash board, between the seat and the console, or on the floor under a seat or floor mat. This will help to prevent the excess cable from interfering with the everyday use of your vehicle, improve the appearance of the installation, and avoid any undesirable accidental damage to the cables that might result in loss of power or satellite signal.

For wireless FM modulator installations, securing and tie-wrapping the excess cable is important to reduce background hissing noise. Be sure to choose a location carefully by taking notice of how doors and trunks open and close, as well as how seats move when they are adjusted so you can be certain there is ample clearance provided for the cables.



NOTES



AUDIOVOX®


12 MONTH LIMITED WARRANTY

AUDIOVOX ELECTRONICS CORPORATION (the Company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the Company's option) without charge for parts and repair labor.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to an approved warranty station or the Company at the address shown below.

This Warranty does not extend to the elimination of externally generated static or noise, to costs incurred for installation, removal or reinstallation of the product, damage to speakers, accessories, or vehicle and home electrical systems, malfunction of satellite transmissions, repeater signal or receiver unit.

This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s).



THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 48 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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